How to change front lower arm on **BMW E90** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
BMW 3 Touring (E91) 325i 3.0, BMW 3 Touring (E91) 318d 2.0, BMW 3 Saloon (E90) 318d 2.0, BMW 1 Coupe (E82) M, BMW X1 (E84) xDrive 28 i, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW 3 Saloon (E90) 320d xDrive 2.0, BMW X1 (E84) sDrive 20 i, BMW X1 (E84) xDrive 20 i, BMW 1 Coupe (E82) 118d 2.0, BMW 3 Coupe (E92) 318i 2.0, BMW 3 Convertible (E93) 318i 2.0, BMW 3 Convertible (E93) 325d 3.0, BMW 1 Hatchback (E81) 116i 1.6, (+ 136)

The steps may slightly vary depending on the car design.

REPLACEMENT: FRONT LOWER ARM – BMW E90. TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- Combination spanner #21
- Torx bit T30
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Hammer
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

Replacement: front lower arm – BMW E90. AUTODOC recommends:

- The replacement procedure is identical for the left and right lower control arms.
- Please note: all work on the car – BMW E90 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Secure the wheels with chocks.



2 Loosen the wheel mounting bolts. Use wheel impact socket #17.



3 Raise the front of the car and secure on supports.

4 Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. BMW E90

5 Remove the wheel.



6 Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



7 Unscrew the fastener connecting the ball joint of the front control arm to the steering knuckle. Use a combination spanner #21. Use Torx T30. Use a ratchet wrench.



8 Clean the fasteners connecting the control arm to the subframe. Use a wire brush. Use WD-40 spray.

9 Unscrew the rear fastener connecting the control arm to the subframe. Use a combination spanner #18 (2 pieces).

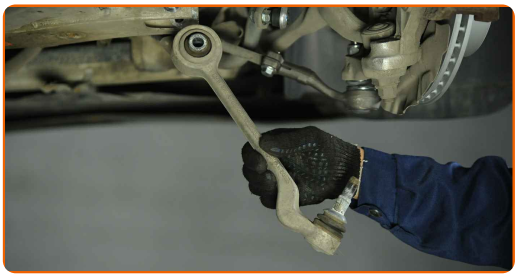


10 Remove the rear fastener of the control arm. Use a hammer.

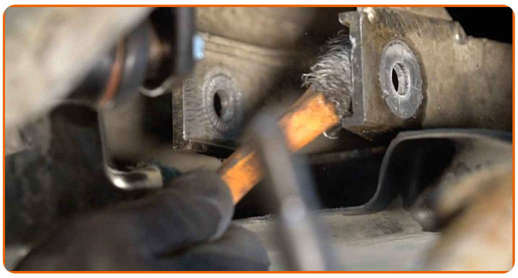
11 Disconnect the lower arm from the steering knuckle. Use a hammer.



12 Remove the arm.



13 Clean the mounting seats and the thread of the suspension arm. Use a wire brush. Use WD-40 spray.



14 Install a new arm.



Replacement: front lower arm – BMW E90. Professionals recommend:

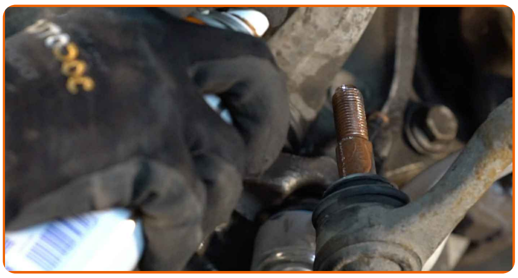
- During the installation process, use only new bolts and nuts.
- Do not damage the ball joint cover.

15 Connect the lower arm to the steering knuckle.

16 Screw in the fastener connecting the ball joint of the front control arm to the steering knuckle. Use a combination spanner #21. Use Torx T30. Use a torque wrench. Tighten it to 165 Nm torque.

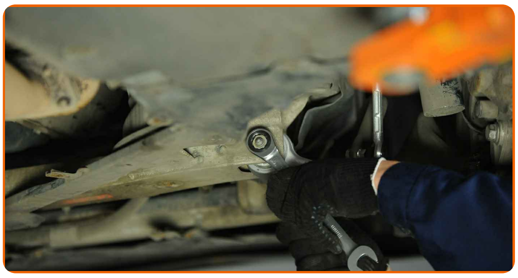


17 Treat the fasteners of the ball joint. Use copper grease.



18 Install the rear fastener of the control arm.

19 Screw the rear fastener connecting the control arm to the subframe. Use a combination spanner #18 (2 pieces).



20 Prop up the steering knuckle. Use a hydraulic transmission jack.



21 Tighten the rear fastener of the control arm. Use a combination spanner #18 (2 pieces). Use a torque wrench. Tighten it to 68 Nm torque.+90°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

22 Treat all joints of the arm. Use copper grease.



23 Remove the support from under the steering knuckle.



AUTODOC recommends:

- Replacement: front lower arm – BMW E90. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

24 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



25 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: front lower arm – BMW E90. After applying the spray, wait a few minutes.

26 Install the wheel.



AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. BMW E90

27 Screw in the wheel bolts. Use wheel impact socket #17.



28 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 nm torque.



29 Remove the jacks and chocks.



WELL DONE!

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